

10544237

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS	1			Web Page for STN Seminar Schedule - N. America
NEWS	2	OCT	02	CA/CAPLUS enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS	3	OCT	19	BEILSTEIN updated with new compounds
NEWS	4	NOV	15	Derwent Indian patent publication number format enhanced
NEWS	5	NOV	19	WPIX enhanced with XML display format
NEWS	6	NOV	30	ICSD reloaded with enhancements
NEWS	7	DEC	04	LINPADOCDB now available on STN
NEWS	8	DEC	14	BEILSTEIN pricing structure to change
NEWS	9	DEC	17	USPATOLD added to additional database clusters
NEWS	10	DEC	17	IMSDRUGCONF removed from database clusters and STN
NEWS	11	DEC	17	DGENE now includes more than 10 million sequences
NEWS	12	DEC	17	TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment
NEWS	13	DEC	17	MEDLINE and LMEALINE updated with 2008 MeSH vocabulary
NEWS	14	DEC	17	CA/CAPLUS enhanced with new custom IPC display formats
NEWS	15	DEC	17	STN Viewer enhanced with full-text patent content from USPATOLD
NEWS	16	JAN	02	STN pricing information for 2008 now available
NEWS	17	JAN	16	CAS patent coverage enhanced to include exemplified prophetic substances
NEWS	18	JAN	28	USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats
NEWS	19	JAN	28	MARPAT searching enhanced
NEWS	20	JAN	28	USGENE now provides USPTO sequence data within 3 days of publication
NEWS	21	JAN	28	TOXCENTER enhanced with reloaded MEDLINE segment
NEWS	22	JAN	28	MEDLINE and LMEALINE reloaded with enhancements
NEWS	23	FEB	08	STN Express, Version 8.3, now available
NEWS	24	FEB	20	PCI now available as a replacement to DPCI
NEWS	25	FEB	25	IFIREF reloaded with enhancements
NEWS	26	FEB	25	IMSPRODUCT reloaded with enhancements
NEWS	27	FEB	29	WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification

NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that

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FILE 'HOME' ENTERED AT 14:29:16 ON 08 MAR 2008

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 14:29:27 ON 08 MAR 2008

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STRUCTURE FILE UPDATES: 7 MAR 2008 HIGHEST RN 1007169-18-7

DICTIONARY FILE UPDATES: 7 MAR 2008 HIGHEST RN 1007169-18-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

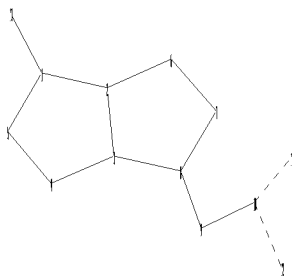
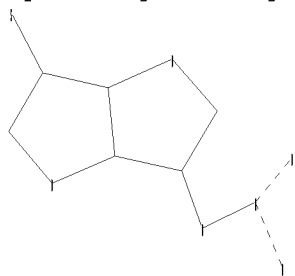
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10544237.str



chain nodes :

9 10 11 12 13

ring nodes :

1 2 3 4 5 6 7 8

chain bonds :

10544237

1-13 8-9 9-10 10-11 10-12

ring bonds :

1-2 1-5 2-3 2-6 3-4 3-8 4-5 6-7 7-8

exact/norm bonds :

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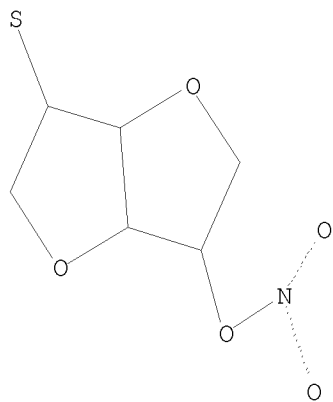
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:CLASS 10:CLASS  
11:CLASS 12:CLASS 13:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s sss l1 sam

SAMPLE SEARCH INITIATED 14:29:50 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 2 TO ITERATE

100.0% PROCESSED 2 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 2 TO 124

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s sss l1 full

FULL SEARCH INITIATED 14:30:22 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 75 TO ITERATE

100.0% PROCESSED 75 ITERATIONS

11 ANSWERS

SEARCH TIME: 00.00.01

10544237

L3 11 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

178.82

179.03

FILE 'CAPLUS' ENTERED AT 14:30:43 ON 08 MAR 2008

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FILE COVERS 1907 - 8 Mar 2008 VOL 148 ISS 11

FILE LAST UPDATED: 7 Mar 2008 (20080307/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s l3

L4 2 L3

=> d ibib abs hitstr 1-2

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:371266 CAPLUS

DOCUMENT NUMBER: 142:423847

TITLE: Disulfide, sulfide, sulfoxide, and sulfone derivatives of cyclic sugars and uses thereof

INVENTOR(S): Repolles Moliner, Jose; Salas Perez-Rasilla, Eduardo; Pubill Coy, Francisco

PATENT ASSIGNEE(S): Lacer, S.A., Spain

SOURCE: PCT Int. Appl., 92 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005037842	A1	20050428	WO 2004-EP10882	20040929
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			

10544237

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,  
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,  
EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,  
SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,  
SN, TD, TG

ES 2258365	A1	20060816	ES 2003-2368	20031003
ES 2258365	B1	20071201		
AU 2004281916	A1	20050428	AU 2004-281916	20040929
CA 2540500	A1	20050428	CA 2004-2540500	20040929
EP 1668017	A1	20060614	EP 2004-765682	20040929

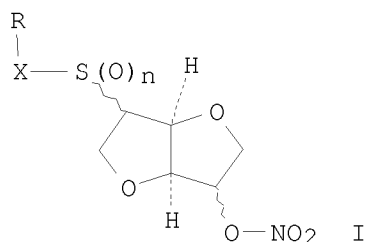
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GB 2421241	A	20060621	GB 2006-5574	20040929
DE 112004001860	T5	20060727	DE 2004-112004001860	20040929
BR 2004015020	A	20061107	BR 2004-15020	20040929
CN 1863805	A	20061115	CN 2004-80028935	20040929
JP 2007507451	T	20070329	JP 2006-530042	20040929
MX 2006PA03610	A	20060605	MX 2006-PA3610	20060330
IN 2006KN01011	A	20070420	IN 2006-KN1011	20060420
NO 2006001872	A	20060630	NO 2006-1872	20060427
US 2006235052	A1	20061019	US 2006-544237	20060605

PRIORITY APPLN. INFO.:

ES 2003-2368	A	20031003
WO 2004-EP10882	W	20040929

OTHER SOURCE(S): MARPAT 142:423847  
GI



AB In the present invention there are disclosed new derivs. of dianhydrohexite mononitrate corresponding to formula I (where n = 0, 1, 2; X = -(C=O)-, etc., R = H, alkyl, alkenyl, cycloalkyl, etc.), tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof as well as pharmaceutical compns. comprising these compds. and uses thereof.

IT 263754-93-4P 850534-53-1P 850534-54-2P  
850534-55-3P 850534-56-4P 850534-57-5P  
850534-58-6P 850534-59-7P 850534-60-0P  
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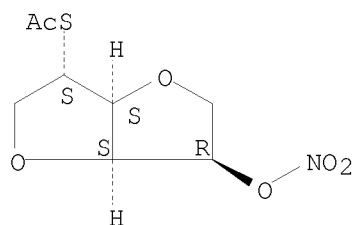
RL: PAC (Pharmacological activity); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
(disulfide, sulfide, sulfoxide, and sulfone derivs. of cyclic sugars and uses thereof)

RN 263754-93-4 CAPLUS

CN D-Glucitol, 1,4:3,6-dianhydro-2-thio-, 2-acetate 5-nitrate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

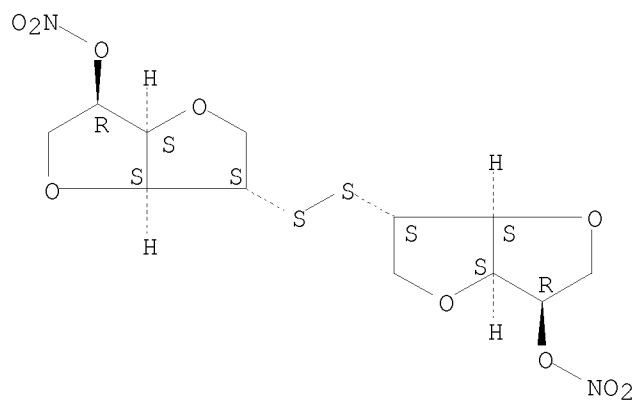
10544237



RN 850534-53-1 CAPLUS

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(CA INDEX NAME)

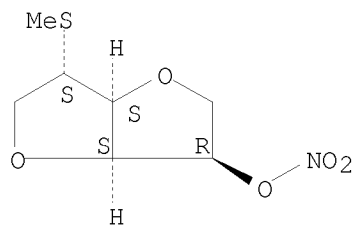
Absolute stereochemistry.



RN 850534-54-2 CAPLUS

CN D-Glucitol, 1,4:3,6-dianhydro-2-S-methyl-2-thio-, nitrate (9CI) (CA INDEX  
NAME)

Absolute stereochemistry.

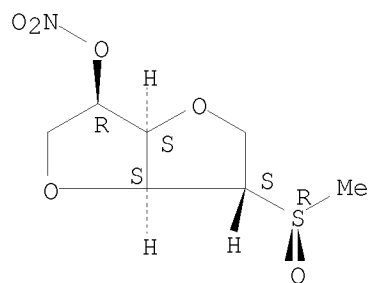


RN 850534-55-3 CAPLUS

CN D-Glucitol, 1,4:3,6-dianhydro-2-deoxy-2-[(R)-methylsulfinyl]-, nitrate  
(9CI) (CA INDEX NAME)

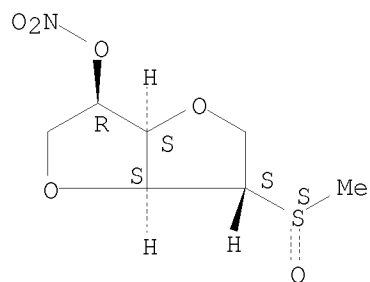
Absolute stereochemistry.

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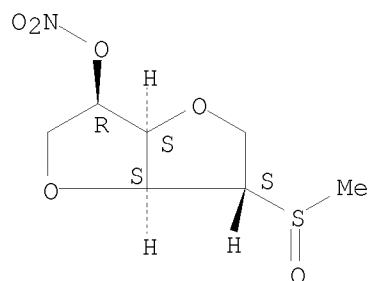
RN 850534-56-4 CAPLUS  
CN D-Glucitol, 1,4:3,6-dianhydro-2-deoxy-2-[(S)-methylsulfinyl]-, nitrate  
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 850534-57-5 CAPLUS  
CN D-Glucitol, 1,4:3,6-dianhydro-2-deoxy-2-(methylsulfinyl)-, nitrate (9CI)  
(CA INDEX NAME)

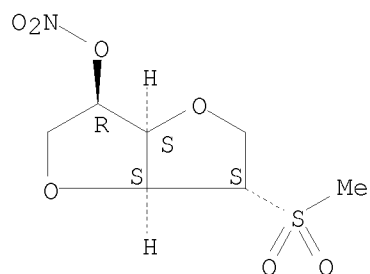
Absolute stereochemistry.



RN 850534-58-6 CAPLUS  
CN D-Glucitol, 1,4:3,6-dianhydro-2-deoxy-2-(methylsulfonyl)-, nitrate (9CI)  
(CA INDEX NAME)

Absolute stereochemistry.

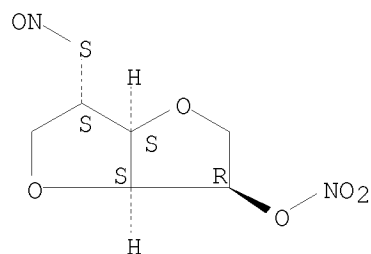
10544237



RN 850534-59-7 CAPLUS

CN D-Glucitol, 1,4:3,6-dianhydro-2-thio-, 5-nitrate 2-nitrite (9CI) (CA INDEX NAME)

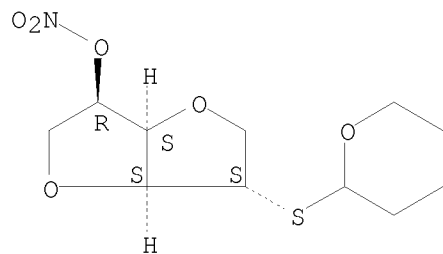
Absolute stereochemistry.



RN 850534-60-0 CAPLUS

CN D-Glucitol, 1,4:3,6-dianhydro-2-S-(tetrahydro-2H-pyran-2-yl)-2-thio-, nitrate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

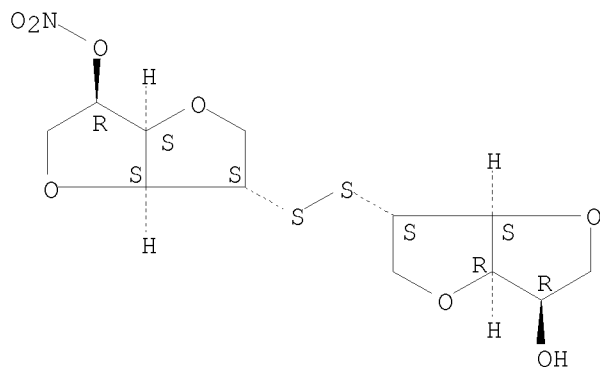


RN 850534-61-1 CAPLUS

CN D-Glucitol, 2,2'-dithiobis[1,4:3,6-dianhydro-2-deoxy-, mononitrate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

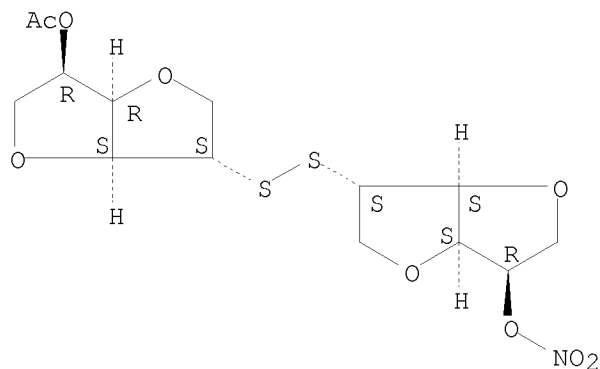
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RN 850534-62-2 CAPLUS

CN D-Glucitol, 2,2'-dithiobis[1,4:3,6-dianhydro-2-deoxy-, monoacetate mononitrate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:241230 CAPLUS

DOCUMENT NUMBER: 132:279468

TITLE: Derivatives of isosorbide mononitrate, and their use as vasodilators with reduced tolerance

INVENTOR(S): Repolles, Moliner Jose; Pubill Coy, Francisco; Cabeza Llorente, Lydia; Carbo Banus, Marcelli; Negrie Rofes, Cristina; Cerda Riudavets, Juan Antonio; Ferrer Siso, Alicia; Radomski, Marek W.; Salas Perez-rasilla, Eduardo; Martinez Bonnin, Juan

PATENT ASSIGNEE(S): Lacer, S.A., Spain; et al.

SOURCE: PCT Int. Appl., 35 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Spanish

FAMILY ACC. NUM. COUNT: 1

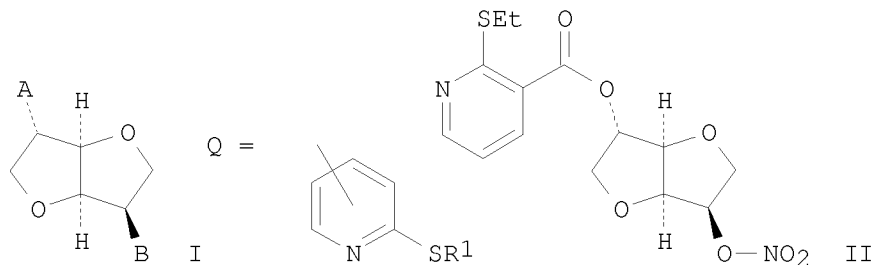
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD,  
MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,  
SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW  
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,  
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PRIORITY APPLN. INFO.:            ES 1998-2076            A 19981007  
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OTHER SOURCE(S):            MARPAT 132:279468  
GI

10544237



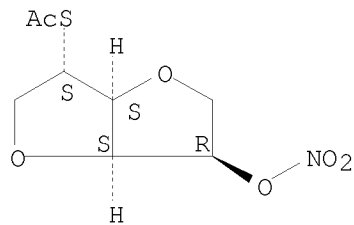
AB Isosorbide mononitrate derivs. I and their pharmaceutically acceptable salts are disclosed [wherein A or B = ONO<sub>2</sub>; other = -Z-CO-R; Z = O or S; R = (un)substituted C1-C4 alkyl, aryl, aralkyl, or thio-substituted pyridinyl group Q; R<sub>1</sub> = H, (un)substituted C1-C4 alkyl, aryl, or aralkyl; when Z = S, R = (un)substituted C1-C4 alkyl, aryl, or aralkyl; when Z = O, R = Q]. The compds. have vasodilator activity with a reduced tolerance effect. For instance, 2-(ethylthio)nicotinic acid was converted to the acid chloride by SOCl<sub>2</sub> (100%), followed by coupling with isosorbide 5-mononitrate (88%), and acidification with HCl in Et<sub>2</sub>O (99%), to give title compound II as the HCl salt. In an arterial ring vasodilation assay in vitro, II.HCl had an EC<sub>50</sub> of 0.13 mM, vs. 0.92 mM for isosorbide 5-mononitrate. In a tolerance assay, chronic (3 day) administration increased the EC<sub>50</sub> approx. 7-fold for isosorbide 5-mononitrate, vs. 4-fold for II.HCl, and essentially null for another invention compound

IT 263754-93-4P, 2-(Acetylmercapto)isosorbide 5-mononitrate  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (target compound; preparation of isosorbide mononitrate derivs. as vasodilators with reduced tolerance)

RN 263754-93-4 CAPLUS

CN D-Glucitol, 1,4:3,6-dianhydro-2-thio-, 2-acetate 5-nitrate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> logoff y		
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	12.82	191.85
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION

10544237

CA SUBSCRIBER PRICE -1.60 -1.60

STN INTERNATIONAL LOGOFF AT 14:32:58 ON 08 MAR 2008

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssptanscl625

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	OCT 02	CA/CAPplus enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS	3	OCT 19	BEILSTEIN updated with new compounds
NEWS	4	NOV 15	Derwent Indian patent publication number format enhanced
NEWS	5	NOV 19	WPIX enhanced with XML display format
NEWS	6	NOV 30	ICSD reloaded with enhancements
NEWS	7	DEC 04	LINPADOCDB now available on STN
NEWS	8	DEC 14	BEILSTEIN pricing structure to change
NEWS	9	DEC 17	USPATOLD added to additional database clusters
NEWS	10	DEC 17	IMSDRUGCONF removed from database clusters and STN
NEWS	11	DEC 17	DGENE now includes more than 10 million sequences
NEWS	12	DEC 17	TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment
NEWS	13	DEC 17	MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary
NEWS	14	DEC 17	CA/CAPplus enhanced with new custom IPC display formats
NEWS	15	DEC 17	STN Viewer enhanced with full-text patent content from USPATOLD
NEWS	16	JAN 02	STN pricing information for 2008 now available
NEWS	17	JAN 16	CAS patent coverage enhanced to include exemplified prophetic substances
NEWS	18	JAN 28	USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats
NEWS	19	JAN 28	MARPAT searching enhanced
NEWS	20	JAN 28	USGENE now provides USPTO sequence data within 3 days of publication
NEWS	21	JAN 28	TOXCENTER enhanced with reloaded MEDLINE segment
NEWS	22	JAN 28	MEDLINE and LMEDLINE reloaded with enhancements
NEWS	23	FEB 08	STN Express, Version 8.3, now available
NEWS	24	FEB 20	PCI now available as a replacement to DPCI
NEWS	25	FEB 25	IFIREF reloaded with enhancements
NEWS	26	FEB 25	IMSPRODUCT reloaded with enhancements
NEWS	27	FEB 29	WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification

NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

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NEWS HOURS      STN Operating Hours Plus Help Desk Availability  
NEWS LOGIN      Welcome Banner and News Items  
NEWS IPC8       For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 15:08:10 ON 08 MAR 2008

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 15:08:34 ON 08 MAR 2008

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STRUCTURE FILE UPDATES:    7 MAR 2008    HIGHEST RN 1007169-18-7

DICTIONARY FILE UPDATES:   7 MAR 2008    HIGHEST RN 1007169-18-7

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\disulfideoxides.str



chain nodes :

1 2 3 4 5 6

chain bonds :

1-2 1-5 1-4 2-6 2-3

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exact/norm bonds :

1-2 1-5 1-4 2-6 2-3

Match level :

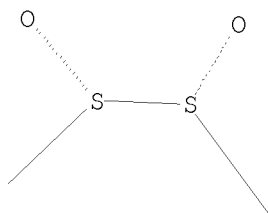
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s sss sam l1

SAMPLE SEARCH INITIATED 15:08:52 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 60 TO ITERATE

100.0% PROCESSED 60 ITERATIONS

4 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 736 TO 1664

PROJECTED ANSWERS: 4 TO 200

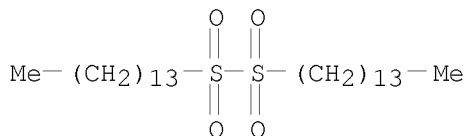
L2 4 SEA SSS SAM L1

=> d scan

L2 4 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN Tetradecyl disulfone (8CI)

MF C28 H58 O4 S2



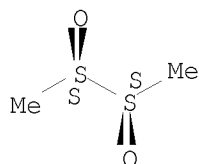
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

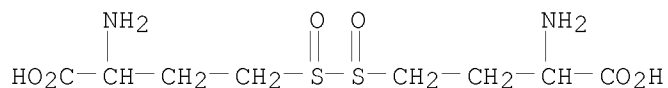
L2 4 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
IN Disulfoxide, dimethyl, [S(R),S(R)]-rel- (9CI)  
MF C2 H6 O2 S2

Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L2 4 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
IN Butanoic acid, 4,4'-disulfinylbis[2-amino- (9CI)  
MF C8 H16 N2 O6 S2



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HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> logoff y		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.92	1.13

STN INTERNATIONAL LOGOFF AT 15:09:28 ON 08 MAR 2008